

Karnataka Board Class 5 Maths Syllabus

Geometry

(20 hrs.)

Shapes & Spatial Understanding Circles

- Draws a circle using compass for given radius.
- Gets the feel of perspective while drawing a 3-D object in 2-D.
- Gets the feel of an angle through observation and paper folding.
- Identifies right angles in the environment.
- Classifies angles into right, acute and obtuse angles.
- Represents right angle, acute angle and obtuse angle by drawing and tracing.
- Explores intuitively the reflections through inkblots, paper cutting and paper folding.
- Explores intuitively rotations and reflections of familiar 2-D i.e. Circle, right angle triangle, rectangle.
- Explores intuitively symmetry in familiar 2D and 3-D shapes.
- Makes the shapes of cubes, cylinders and cones using nets especially designed for this purpose.
- Draws intuitively the plan, elevation and side view of simple 3D objects.
- Gets familiar with the instrument box and its use.

Numbers

(50 hrs.)

Numbers and operations

- Finds place value in numbers beyond 1000.
- Appreciates the role of place value in addition, subtraction and multiplication algorithms.
- Uses informal and standard division algorithms.
- Explains the meaning of factors and multiples.

Mental Arithmetic

- Estimates sums, differences, products and quotients and verifies using approximation.

FRACTIONAL NUMBERS

- Finds the fractional part of a collection.
- Compares fractions.
- Identifies equivalent fractions.
- Estimates the degree of closeness of a fraction to known fractions ($\frac{1}{2}$, $\frac{1}{4}$, $\frac{3}{4}$ etc.)
- Uses decimal fractions in the context of units of length and money.
- Expresses a given fraction in decimal notation and vice versa.

Money

(6 hrs.)

Applies the four operations in solving problems involving money.
Makes rate charts and bills.
Estimates roughly the totals and total cost

Measurement

(26 hrs.)

Length

- Determines area and perimeter of simple geometrical figures. by measuring.
- Applies the four operations in solving problems involving length, weight and volume.
- Relates commonly used larger and smaller units of length, weight and volume and converts one to the other.
- Applies simple fractions to quantities.
- Converts fractional larger unit into complete smaller units.
- Appreciates volume of a solid body: intuitively and also by informal measurement.
- Uses addition and subtraction in finding time intervals in simple cases.

Data Handling

(8hrs.)

- Collects two dimensional quantitative data.
- Represents the data in the form of a table.
- Draws a bar graph or a pictograph to present a data.
- Draws inferences through discussions.

Patterns

(10 hrs.)

- Familiarizes square and triangular numbers through patterns.
- Relates sequences of odd numbers between consecutive square numbers.

Makes border strip and tiling pattern